



TABLE 1
FIELD SECTION 10
GUIDE SCHEDULE FOR INDEPENDENT ASSURANCE SAMPLES

inch-pound units [SI units]

Legend: FD = Field

CL = Central Laboratory

BM = Before Mixing

DL = District Laboratory

AC = After Compaction

BP = Batch Plant

BC = Before Compaction

Type of Construction or Material	Tests to be made (if specified)	Sample d	Tested In	Minimum Number of Tests	Comparison Limits
Grading - Embankment	Density SAA003AA	AC	FD	One per 3 mile [5 kilometers] or one per 2,000,000 cubic yards [1,500,000 cubic meters], whichever is greatest not including material too rocky to test. None required if less than 10,000 cubic yards [8000 cubic meters].	Dry weight [mass] per cubic foot [meter] within 6 percent of mean of the two tests. ^{*2}
Subgrade Preparation	Density SAA003AA	AC	FD	One per 3 miles [5 kilometers] or fraction thereof. None required if less than 3/4 mile [1.2 kilometers].	Dry weight [mass] per cubic foot [meter] within 6 percent of mean of the two tests. ^{*2}
Aggregate Base ^{*1} (Roadway and Shoulders) Type 1, 2, 3, 4, 5, or Stabilized Permeable Base NOTE: Gradation only for Type 4 and Stabilized Permeable Base	Density SAA003DA	AC	FD	One per 13,500 tons [12,000 megagrams] or fraction thereof per specified gradation. None required if less than 5,000 tons [4500 megagrams] of a specified gradation.	Dry weight [mass] per cubic foot [meter] within 6 percent of mean of the two tests. ^{*2}
	Gradation SAA002EA SAA002GA SAA002HA	BC	FD, DL	One per 30,000 tons [27,000 megagrams] or fraction thereof per specified gradation. None required if less than 5,000 tons [4500 megagrams] of a specified gradation.	1/2 gradation range.
	PI included with gradation	BC	FD, DL	One per project per specified gradation., per source. None required if less than 5,000 tons [4500 megagrams] of a specified gradation.	Within One (1) PI of their mean.
Sand-Soil Base or Soil-Cement Base or Soil-Lime Base	Gradation SAA002KA	BC	FD, DL	One per 55,000 square yards [46,000 square meters] or fraction thereof. None required if less than 10,000 square yards [8400 square meters].	1/2 specification range.
	Liquid Limit included with gradation	BC	FD, DL	One per 55,000 square yards [46,000 square meters] or fraction thereof. None required if less than 10,000 square yards [8400 square meters].	Within 13 percent of their mean.
	PI included with gradation	BC	FD, DL	One per 55,000 square yards [46,000 square meters] or fraction thereof. None required if less than 10,000 square yards [8400 square meters].	Within One (1) PI of their mean.
	Density SAA003AA	AC	FD	One per 55,000 square yards [46,000 square meters] or fraction thereof. None required if less than 10,000 square yards [8400 square meters].	Dry weight [mass] per cubic foot [meter] within 6 percent of mean of the two tests. ^{*2}
Crushed Stone or Gravel Surfacing	Gradation SAA002VA		FD, DL	One per project. None required if less than 1,000 tons [1,000 megagrams] or 750 cubic yards [575 cubic meters].	1/2 specification range.

^{*1} When aggregate base is shown in the contract to be measured and paid for by the area, convert the area to tons and follow the sampling frequency shown in this schedule. When converting, use the factor .06 ton/sq.yd./1" [0.0028Mg/m²/mm]thickness. ^{*2} If nuclear method is used, observation only - no limits.



TABLE 1
FIELD SECTION 10 (CONT'D)
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Type of Construction or Material	Tests to be made (if specified)	Sampled	Tested In	Minimum Number of Tests	Comparison Limits
Plant Mix Bit. Base or Plant Mix Bit. Pavement	Gradation SAA002ID	BM	FD, DL	One per 10,000 tons [9000 megagrams] or fraction thereof per type of construction. None required if type of mixture is less than 1,000 tons [900 megagrams].	1/2 specification range.
or Road Mix Bit. Pavement	Density SAA003CA * ⁶	AC	DL, CL	Two if over 10,000 tons [9000 megagrams]. One if 1,000 to 10,000 tons [900 to 9000 megagrams]. None required if less than 1,000 tons [900 megagrams].	Specific gravity within 2 percent of the mean of the two tests.
or Ultra-Thin Bonded Wearing Surface* ⁴	Asphalt Cement Content by Nuclear Gauge SAA003EC	BC	FD	One per 10,000 tons [9000 megagrams] or fraction thereof per type of construction. None required if type of mixture is less than 1,000 tons [900 megagrams].	* ²
Superpave Asphaltic Concrete Pavement	Gradation SAA002ID	BM	FD, DL	One per 30,000 tons [27,000 megagrams] or fraction thereof per type of construction. None required if type of mixture is less than 1,000 tons [900 megagrams]. * ⁴	1/2 specification range.
	Density SAA024AB	AC	DL, CL	Two if over 10,000 tons [9000 megagrams]. One if 1,000 to 10,000 tons [900 to 9000 megagrams]. None required if less than 1,000 tons [900 megagrams]. * ⁵	Specific gravity within 2 percent of the mean of the two tests.
	Maximum Specific Gravity SAA024AB	BC	FD	Two if over 10,000 tons [9,000 megagrams]. One if 1,000 to 10,000 tons [900 to 9,000 megagrams]. None required if type of mixture is less than 1,000 tons [900 megagrams]. * ⁵	Maximum specific gravity within 1 percent of the mean of the two tests.
	Volumetric (Sp. Gr. of gyratory compacted specimens) SAA024AB	BC	DL, CL	Two if over 10,000 tons [9,000 megagrams]. One if 1,000 to 10,000 tons [900 to 9,000 megagrams]. None required if type of mixture is less than 1,000 tons [900 megagrams]. * ⁵	Specific gravity within 2 percent of the mean of the two tests.
	Asphalt Cement Content by Nuclear Gauge or Binder Ignition Oven SAA024AB	BC	FD	Two if over 10,000 tons [9,000 megagrams]. One if 1,000 to 10,000 tons [900 to 9,000 megagrams]. None required if type of mixture is less than 1,000 tons [900 megagrams]. * ⁵	* ²
	Gyratory Compactor	BC	FD	Two if over 10,000 tons [9,000 megagrams]. One if 1,000 to 10,000 tons [900 to 9,000 megagrams]. None required if type of mixture is less than 1,000 tons [900 megagrams]. * ⁵	* ³
<p>*² If nuclear method or binder ignition method used, observation only – no limits.</p> <p>*³ If an approved gyratory compactor is used, observation only – no limits</p> <p>*⁴ If one test required, test QA inspector. If additional test required, perform approximately 75 percent of the test on the QC inspector and approximately 25 percent on the QA inspector.</p> <p>*⁵ If one test required, test QA inspector. If two tests required, test QC inspector once and QA inspector once.</p> <p>*⁶ Not applicable for Ultra-Thin Bonded Asphalt Wearing Surface.</p>					



TABLE 1
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inch-pound units [SI units]

Type of Construction or Material	Tests to be made (if specified)	Sampled	Tested In	Minimum Number of Tests	Comparison Limits
PCC Pavement or PCC Base (Full Depth, Unbonded Overlay, Bonded Overlay and Whitetopping.)	Air Content SAE005CA		FD	One per 55,000 square yards [46,000 square meters] or fraction thereof per type of construction. None required if type of construction is less than 5,000 square yards [4200 square meters].	1/2 specification range.
	Slump included with air		FD	One per 55,000 square yards [46,000 square meters] or fraction thereof per type of construction. None required if type of construction is less than 5,000 square yards [4200 square meters].	One inch [25 mm]
	Gradation (Coarse Aggregate) SAA002JD	BP	FD, DL	One per specified gradation. None required if type of construction is less than 5,000 square yards [4200 square meters].	1/2 specification range.
	Gradation (Fine Aggregate) SAA002AA	BP	FD, DL	One per specified gradation. None required if type of construction is less than 5,000 square yards [4200 square meters].	1/2 specification range.
	Deleterious (Coarse Aggregate) included with gradation	BP	FD, DL	One per specified gradation. None required if type of construction is less than 5,000 square yards [4200 square meters].	1/2 specification range.
Concrete Masonry (Structures)	Air Content SAE005CA [SAM005CA]		FD	One per 500 cubic yards [400 cubic meters] or fraction thereof per class of concrete. None required if class of concrete is less than 150 cubic yards [125 cubic meters].	1/2 specification range.
	Slump included with air		FD	One per 500 cubic yards [400 cubic meters] or fraction thereof per class of concrete. None required if class of concrete is less than 150 cubic yards [125 cubic meters].	One inch [25 mm]
	Compressive Strength SAE005AA [SAM005AA]		CL	One per 500 cubic yards [400 cubic meters] or fraction thereof per class of concrete. None required if class of concrete is less than 150 cubic yards [125 cubic meters].	Mean of either set within 15 percent of the mean of both sets.
	Gradation (Coarse Aggregate) SAA002JD	BP	FD, DL	One per specified gradation per class of concrete. None required if class of concrete is less than 150 cubic yards [125 cubic meters].	1/2 specification range.
	Gradation (Fine Aggregate) SAA002AA	BP	FD, DL	One per specified gradation per class of concrete. None required if class of concrete is less than 150 cubic yards [125 cubic meters].	1/2 specification range.
	Deleterious (Coarse Aggregate) included with gradation	BP	FD, DL	One per specified gradation per class of concrete. None required if class of concrete is less than 150 cubic yards [125 cubic meters].	1/2 specification range.

